

IN THE CLAIMS

The following version of the claims replaces all previous versions.

1. (CURRENTLY AMENDED) A photoactive composition comprising a pharmaceutically acceptable formulation of at least one compound of E--L--DYE--X--N₃ (formula 1), ~~E--L--DYE--X--Y (formula 2), or combinations thereof where~~

DYE is selected from the group consisting of cyanines, indocyanines, phthalocyanines, rhodamines, phenoxazines, phenothiazines, phenoselenazines, fluoresceins, porphyrins, benzoporphyrins, squaraines, corrins, croconiums, azo dyes, methine dyes, and indolenium dyes, ~~Y is selected from the group consisting of any Dye, hydrogen, halogens, anthracylines, azido, C1-C20 peroxyalkyl, C1-C20 peroxyaryl, C1-C20 sulfenatoalkyl, sulfenatoaryl, diazo dyes, chlorines, naphthalocyanines, methylene blue, and chalcogenopyrylium analogues,~~

E is selected from the group consisting of somatostatin receptor binding molecules, heat sensitive bacterioendotoxin receptor binding molecules, neurotensin receptor binding molecules, bombesin receptor binding molecules, cholestylin receptor binding molecules, steroid receptor binding molecules, carbohydrate receptor binding molecules, ~~and hydrogen;~~

L is selected from the group consisting of -(CH₂)_a-, -(CH₂)_bCONR¹-, -N(R²)CO(CH₂)_c-, -OCO(CH₂)_d-, -(CH₂)_eCO₂-, -OCONH-, -OCO₂-, -HNCONH-, -HNCSNH-, -HNNHCO-, -OSO₂-, -NR³(CH₂)_eCONR⁴-, -CONR⁵(CH₂)_fNR⁶CO-, and -NR⁷CO(CH₂)_gCONR⁸-;

X is either a single bond or is selected from the group consisting of -(CH₂)_h-, -OCO-, -HNCO-, -(CH₂)_iCO-, and -(CH₂)_jOCO-;

R¹ to R⁸ are independently selected from the group consisting of hydrogen, C1-C10 alkyl, -OH, C1-C10 polyhydroxyalkyl, C1-C10 alkoxy, C1-C10 alkoxyalkyl, -SO₃H, -(CH₂)_kCO₂H, and -(CH₂)_lNR⁹R¹⁰;

R⁹ and R¹⁰ are independently selected from the group consisting of hydrogen, C1-C10 alkyl, C5-C10 aryl, and C1-C10 polyhydroxyalkyl; and a to l independently range from 0 to 10, as a photosensitive composition.

2-4. (CANCELED)

5. (ORIGINAL) The composition of claim 1 comprising at least two of formula 1.

6. (ORIGINAL) The composition of claim 1 further comprising a diamagnetic metal coordinated with a phthalocyanine or naphthalocyanine.

7. (CURRENTLY AMENDED) The composition of claim 1 wherein ~~at least one of Dye or Y~~ is bonded with a polycationic peptide.

8. (CURRENTLY AMENDED) The composition of claim 1 further comprising at least one of tellurium or selenium replacing a core oxygen or nitrogen in ~~at least one of a Dye or Y~~ selected from the group consisting of rhodamine, methylene blue, and a chalcogenopyrylium analogue.

9-18. (CANCELED)

19. (CURRENTLY AMENDED) A compound comprising formula 1



where

[[Dye]] DYE is selected from at least one of cyanines, indocyanines, phthalocyanines, rhodamines, phenoxazines, phenothiazines, phenoselenazines, fluoresceins, porphyrins, benzoporphyrins, squaraines, corrins, croconiums, azo dyes, methine dyes, and indolenium dyes,

E is selected from the group consisting of somatostatin receptor binding molecules, heat sensitive bacterioendotoxin receptor binding molecules, neurotensin receptor binding molecules, bombesin receptor binding molecules, cholestekinin receptor binding molecules, steroid receptor binding molecules, and carbohydrate receptor binding molecules;

L is selected from the group consisting of $-(CH_2)_a-$, $-(CH_2)_bCONR^1-$, $-N(R^2)CO(CH_2)_c-$, $-OCO(CH_2)_d-$, $-(CH_2)_eCO_2-$, $-OCONH-$, $-OCO_2-$, $-HNCONH-$, $-HNCSNH-$, $-HNNHCO-$, $-OSO_2-$, $-NR^3(CH_2)_eCONR^4-$, $-CONR^5(CH_2)_fNR^6CO-$, and $-NR^7CO(CH_2)_gCONR^8-$;

X is either a single bond or is selected from the group consisting of $-(CH_2)_h-$, $-OCO-$, $-HNCO-$, $-(CH_2)_iCO-$, and $-(CH_2)_jOCO-$;

R^1 to R^8 are independently selected from the group consisting of hydrogen, C1-C10 alkyl, $-OH$, C1-C10 polyhydroxyalkyl, C1-C10 alkoxy, C1-C10 alkoxyalkyl, $-SO_3H$, $-(CH_2)_kCO_2H$, and $-(CH_2)_lNR^9R^{10}$;

R^9 and R^{10} are independently selected from the group consisting of hydrogen, C1-C10 alkyl, C5-C10 aryl, and C1-C10 polyhydroxyalkyl; and

a to l independently range from 0 to 10.

20-21. (CANCELED)

22. (CURRENTLY AMENDED) The composition compound of claim 19 formulated in a liposome.